

FUJITSU LIMITED

Communications and Electronics

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OUR LETTER No. 8134/BA-8

TOKYO, November 26, 1964

MR. T. NELSON
SYSTEMS CONSULTANT
BOX 1546
POUGHKEEPSIE N Y

Dear Sir:

Thank you for your interest in our product FACOM 603 Magnetic Tape Unit which appeared in the October 1964 issue of DATAMATION.

We take pleasure in sending you the enclosed catalog. We hope you will find it useful and informative.

If you need further information, please contact our sales agents listed below or write to us directly.

AGENTS:

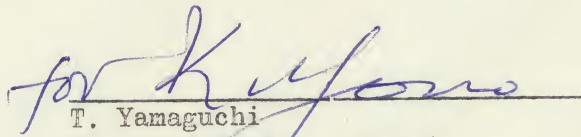
THE NISSHO PACIFIC CORP.
120 Montgomery Street, 24th Floor, Equitable Bldg.
San Francisco 4, California, U.S.A.

THE NISSHO PACIFIC CORP.
649 South Olive Street, Los Angeles 14, California, U.S.A.

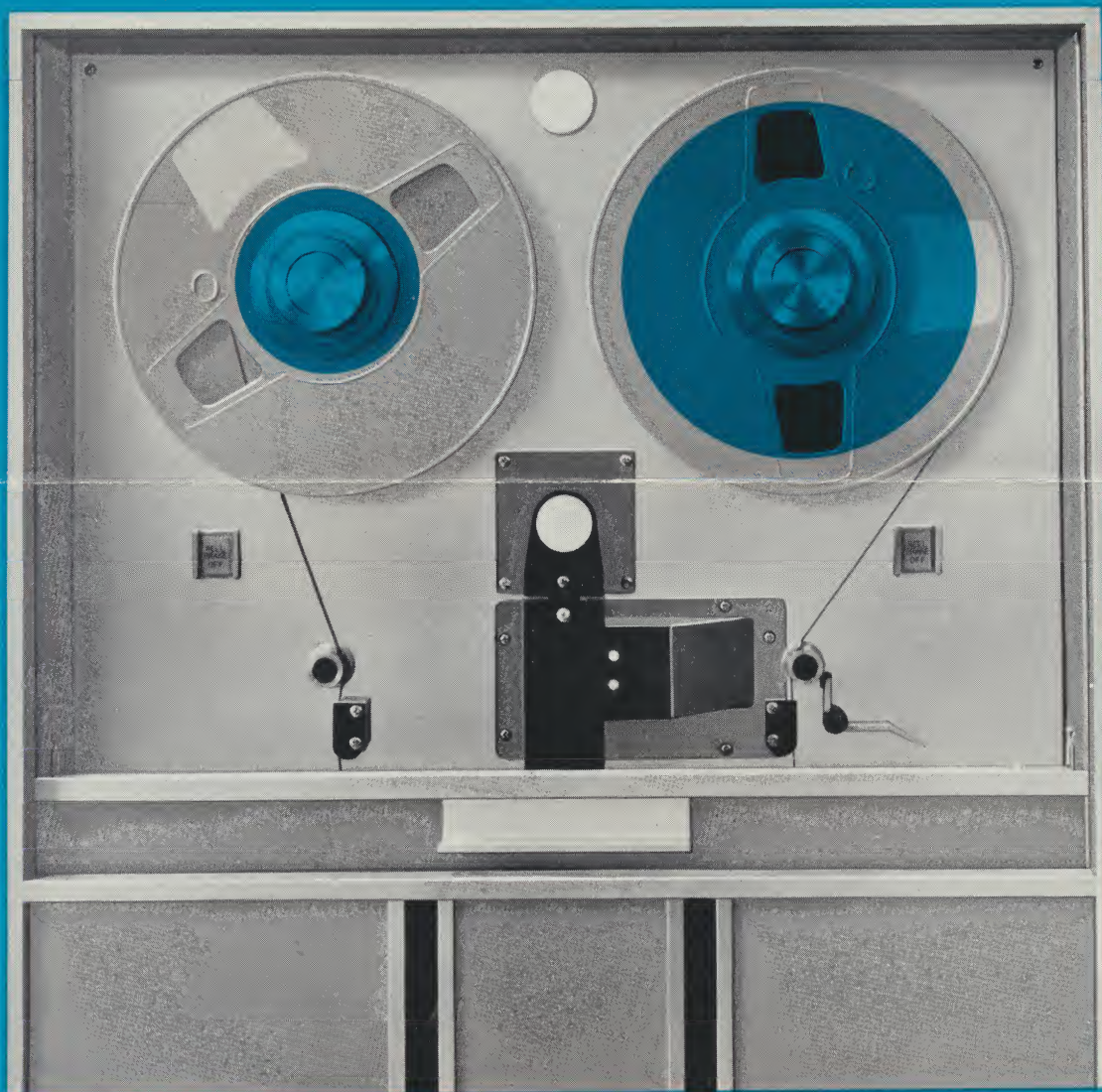
THE NISSHO AMERICAN CORP.
80 Pine Street, New York 5, N.Y., U.S.A.

Looking forward to having a chance to be of service to you in future, we are

Yours sincerely,


T. Yamaguchi
Chief of Business Section
Export Department

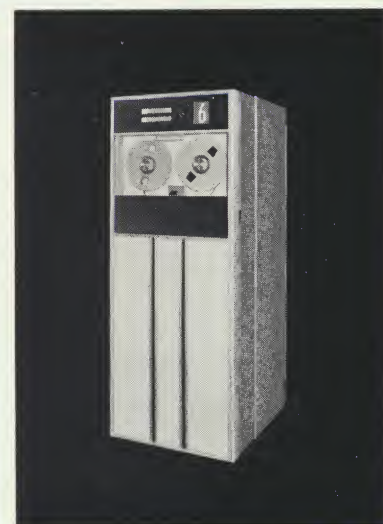
Encl. "FACOM 603 MAGNETIC TAPE UNIT"

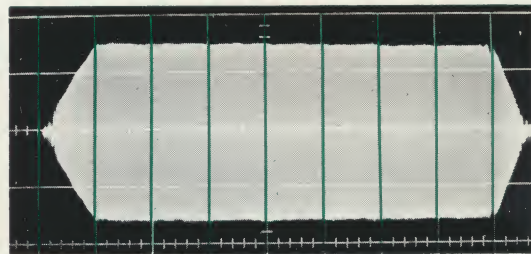
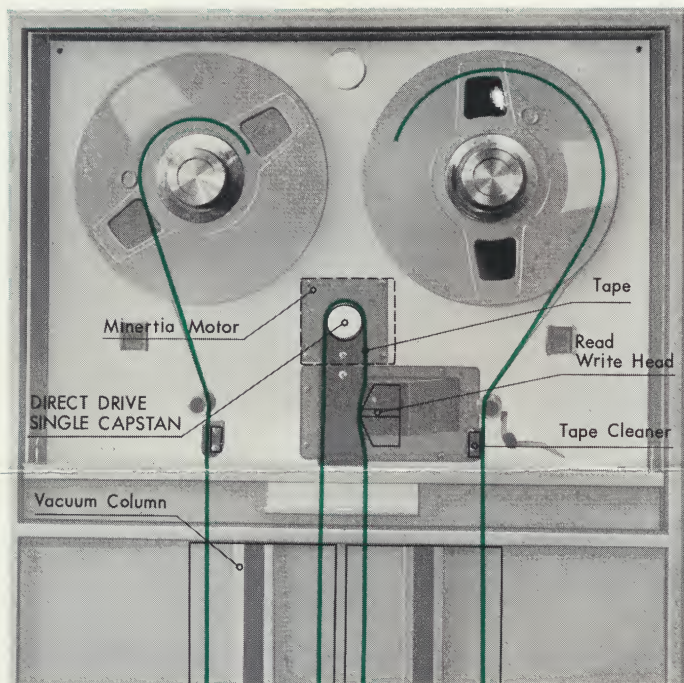


FACOM 603 MAGNETIC TAPE UNIT

The realization of a single-capstan tape drive system featured by direct control of tape start/stop by the capstan, has always been desired for the ideal magnetic tape unit. It is said that this tape drive mechanism would be the ultimate in design (Patent pending).

Such an ideal magnetic tape unit is now available in our FACOM 603 Series. Built by utilizing that ultimate design philosophy, the FACOM 603 Series may be an epoch-making breakthrough in the fields of high speed data processing systems.





Start/Stop Characteristics

(Tape Speed: 75 inch/second)

(5 milliseconds per section)

ESSENTIAL FEATURES

Single-Capstan Tape Drive

The FACOM 603 tape drive mechanism incorporates a single capstan directly coupled with a DC motor. The 603 uses no clutch, no pinch roller and no pneumatic valve. The tape is always held in contact with the single capstan by uniform tension produced by the vacuum storage columns.

Direct Drive of Single Capstan

The start/stop motions of the tape are accomplished by the direct drive control of the single capstan. This is one of the most essential features of FACOM 603, and has been realized through direct coupling of the capstan with a specially designed "Minertia Motor".

"Minertia Motor" (Minimum Inertia Motor)

The unique design of the Minertia Motor—high performance DC servo motor—provides very smooth and rapid transient response at start/stop. Its rotating speed is kept constant and highly stable without influences from

power voltage or frequency variations. Thus, the motor, which is directly coupled with the single capstan, can be controlled electronically with rapid response and high stability, resulting in the ideal start/stop and most stable speed of the tape in FACOM 603.

The FACOM 603 Series are a joint development by FUJITSU LIMITED and YASKAWA Electric Mfg. Co., Ltd.

The Ultimate in Simplicity

Resulting from these features, the tape drive mechanism of FACOM 603 is of the simplest type and the tape path is ideal because nothing but the read/write head and the tape cleaners come in contact with the recording surface. This in turn has resulted in minimized skewed tape motion and tape wear, extended tape life (more than 10 times longer), high machine and data reliability, increased ease of maintenance, and economy in data processing costs.



ADDITIONAL FEATURES

Compatibility :

With IBM 729 Series.

Full Restriction-Free Programming :

Because of its special design of start/stop and reel servo control, the FACOM 603 Series have no program restrictions whatsoever.

Simplified Tape Replacement Mechanism :

A permanent leader is provided for the take-up reel. Thus, loading and unloading of tapes can be done quite easily and quickly with the hook.

"Read Backward" Capability:

This feature greatly increases the tape sorting capability of data processing systems because rewinding is not necessary between phase two passes.

Head Move-Away Mechanism:

The read/write head automatically moves away from the tape during rewinding. This feature minimizes the wear of both the head and the tape and greatly extends their service life.

PERFORMANCE

FACOM 603	Model A	Model B	Model C
1. Transfer Rate (char./sec.)	9,000 25,000 36,000	15,000 41,700 60,000	24,000 66,700 96,000
2. Density (char./inch)	200 556 800	200 556 800	200 556 800
3. Tape Speed (inches/sec.)	45	75	120
4. Inter Record Gap (inch)	3/4	3/4	3/4
5. Start Time (milliseconds)	10.0	5.8	3.5
6. Stop Time (milliseconds)	8.0	4.5	3.0
7. Rewind Time (min./reel)	2.5	2	1.5
8. No. of Tracks (dual gap head)	7 (dual gap head)	7 (dual gap head)	7 (dual gap head)
9. Tape Width (inch)	1/2	1/2	1/2
10. Tape Length (feet)	2,400	2,400	2,400
11. Tape Reel	IBM Standard	IBM standard	IBM standard

MAIN PRODUCTS :

Communication Industrial Dept.

Telephone exchange equipment
Telephone set
Carrier transmission system
Radio communication equipment
Remote control & telemetering equipment
Telegraph & data communication equipment

Electronic Industrial Dept.

Electronic computer & its peripheral (FACOM)
Automatic control equipment (FANUC)
Electrical indicator
Electronic component & semiconductor



FUJITSU LIMITED

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Marunouchi, Tokyo, Japan